

**ABSTRACT**

Apparatus for drug administration is provided, including an ingestible capsule. The capsule includes a drug, stored by the capsule. An environmentally-sensitive mechanism is adapted to change a state thereof responsive to a disposition of the capsule within a gastrointestinal tract of a subject. A driving mechanism, in response to a change of state of the environmentally-sensitive mechanism, is adapted to drive the drug directly through an endothelial layer of the gastrointestinal tract.